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## QPS Upgrade and Re-commissioning

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Prior to the re-start of the Large Hadron Collider LHC in 2009 the protection system for superconducting devices QPS will be submitted to a substantial upgrade. The foreseen modifications will enhance the capability of the system in detecting problems related to the electrical interconnections between superconducting magnets as well as the detection of so-called aperture symmetric quenches in the LHC main magnets.

The presentation will describe the design and implementation of the new protection layers and report on recent tests with prototype devices. It will address as well the planned steps for commissioning of the new system, possible limitations and the additional tools and procedures required to make use of its full capability. Finally the recent progress with respect to procurement, production, test and installation will be presented.

**Author:** DENZ, Reiner

**Presenter:** DENZ, Reiner

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